STEREO INTEGRATED AMPLIFIER

KA-2050R/3050R

SERVICE MANUAL

KENWOOD

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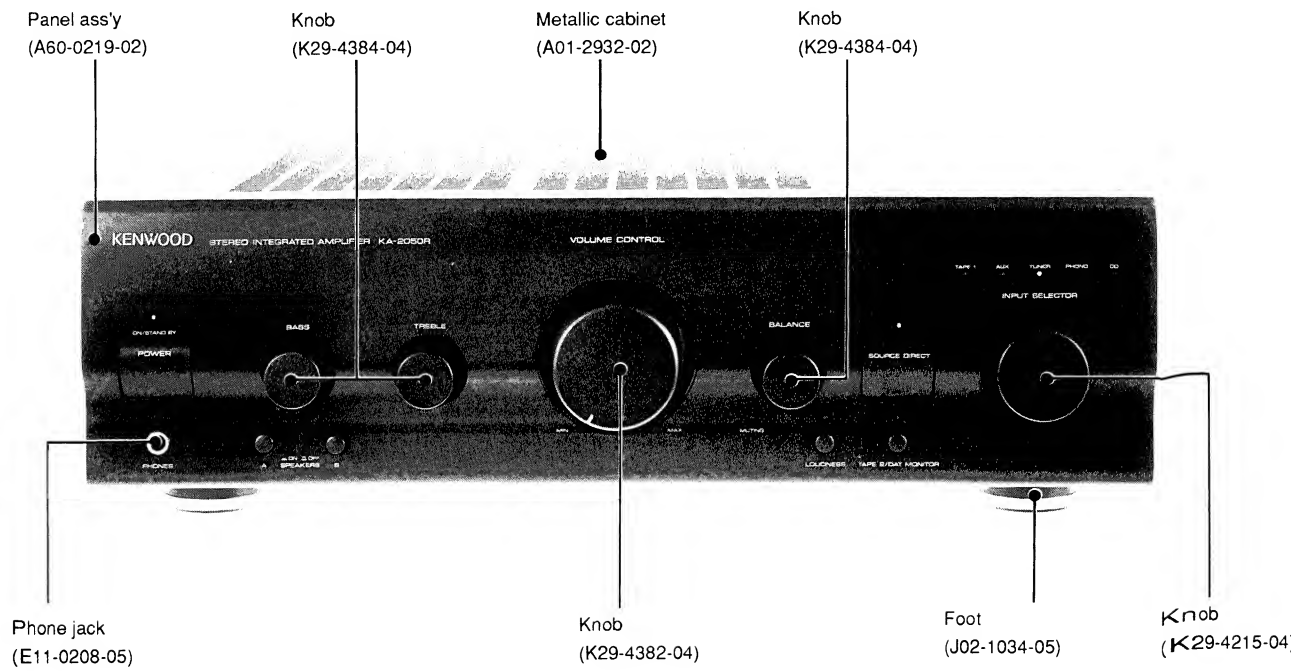
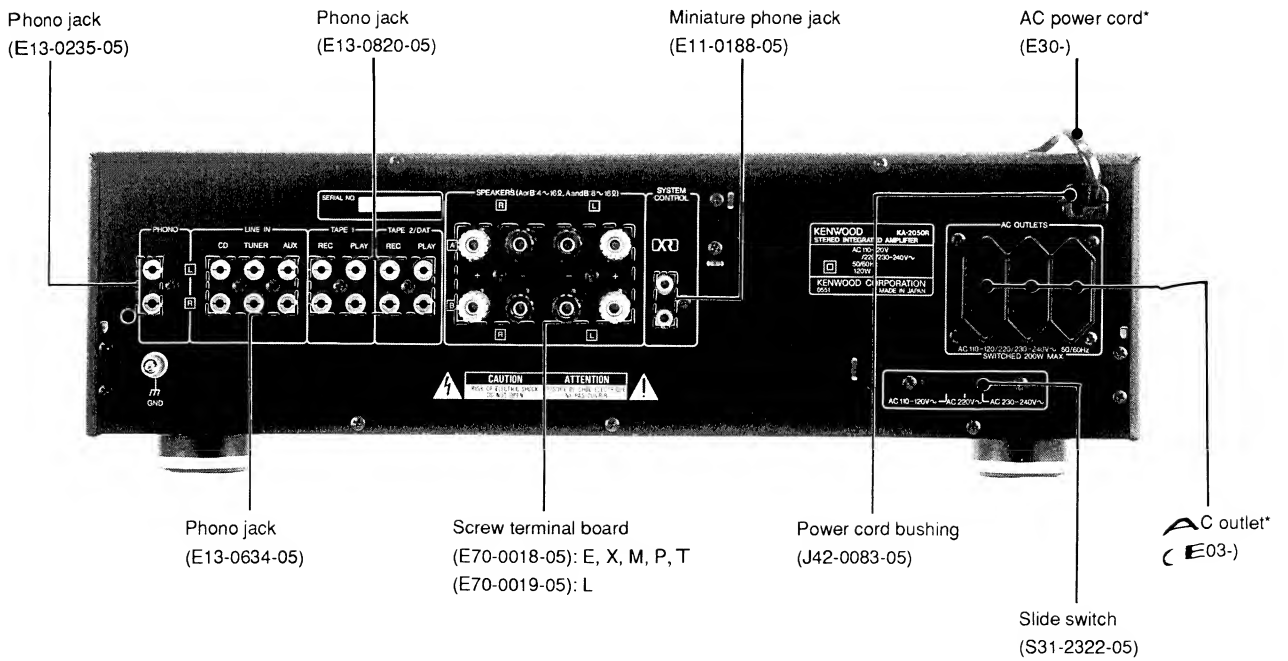
B51-4546-00 (S) 2349

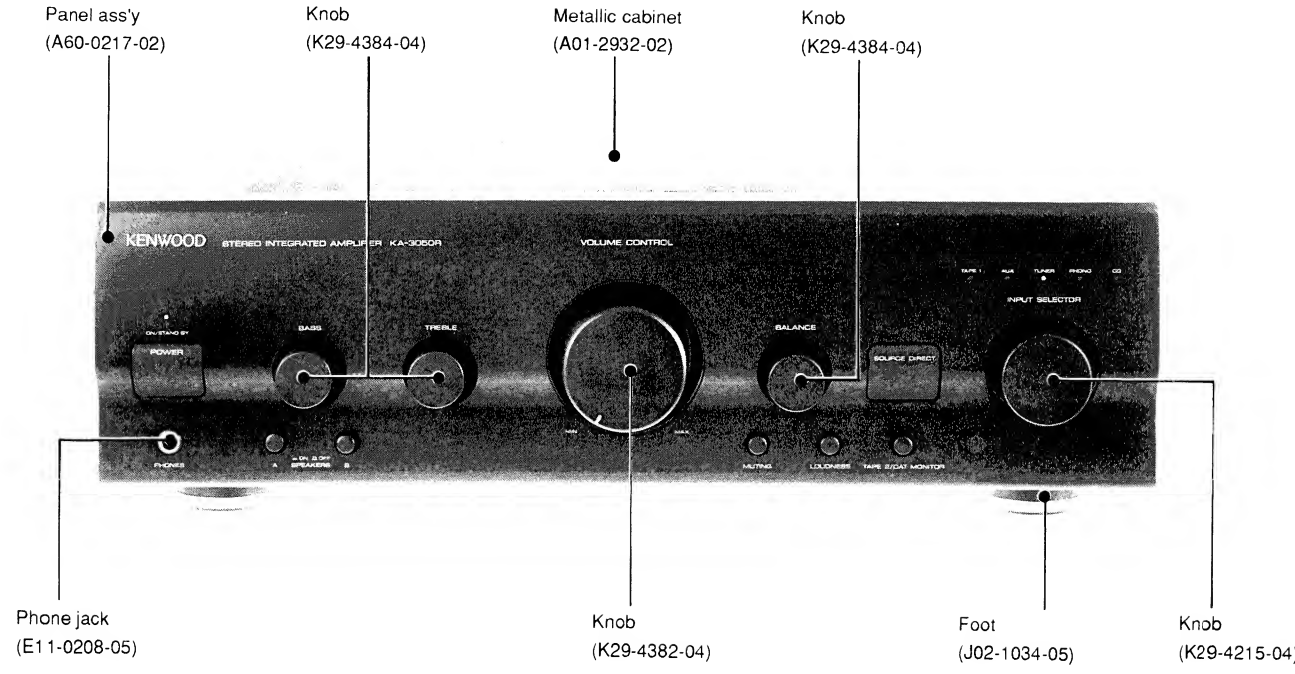
(KA-2050R)

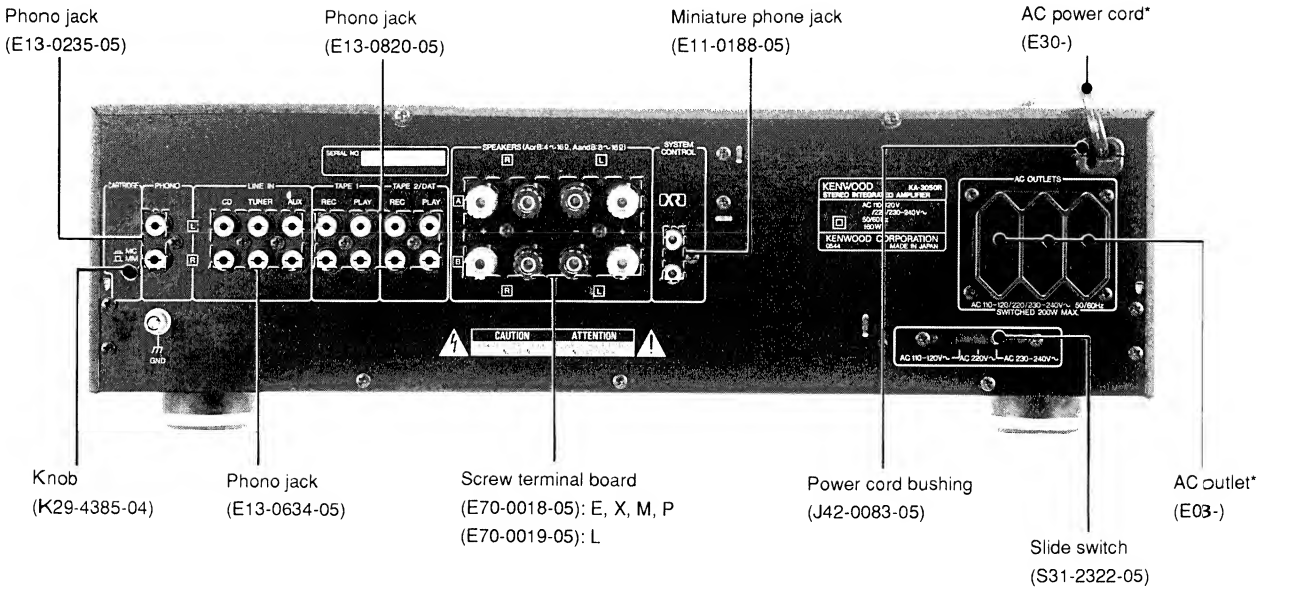




* Refer to parts list page 17.

KA-2050R/3050R

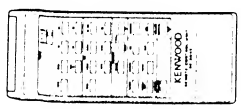




* Refer to parts list on page 17.

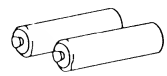
Accessories

- Remote control unit 1

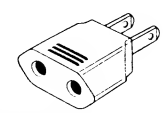


(A70-0597-05)
(A09-0094-08) : Battery cover

- Batteries (R03/UM-4/"AAA") 2



- AC plug adaptor 1
(Except for some areas)
For the unit with a European AC plug in areas other than Europe.



(E03-0115-05)

ADJUSTMENT/REGLAGES/ABGLEICH

ADJUSTMENT

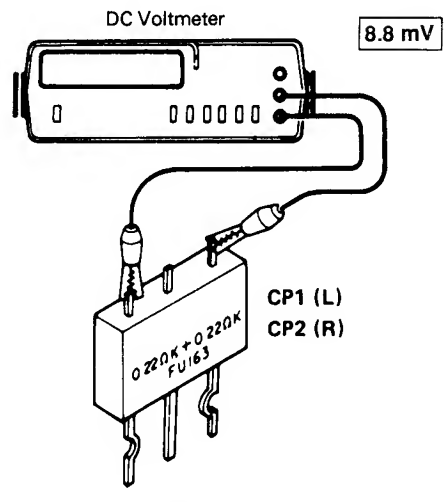
No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	AMPLIFIER SETTING	ALIGNMENT POINTS	ALIGN FOR	FIG.
	Unless otherwise specified, set the respective switches as follows: POWER: ON SPEAKER: B REC OUT: OFF SELECTOR: PHONO						
1	IDLE CURRENT	–	Connect a DC voltmeter across CP1 (L) CP2 (R) (X09-)	VOLUME: 0	VR1 (L) VR2 (R) (X09-)	8.8 mV	(a)

REGLAGES

N	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DE L'AMPLIFICATEUR	POINTS DE L'ALIGNMENT	ALIGNER POUR	FIG.
	Sauf indicationcontraire, régler comme suit les commandes respectives: POWER:ON SPEAKER: B REC OUT: OFF SELECTOR:PHONO						
1	COURANT DE POLARISATION	–	Connecter un voltmètre de CC SUR CP1 (G) CP2 (D) (X09-)	VOLUME: 0	VR1 (G) VR2 (D) (X09-)	8.8 mV	(a)

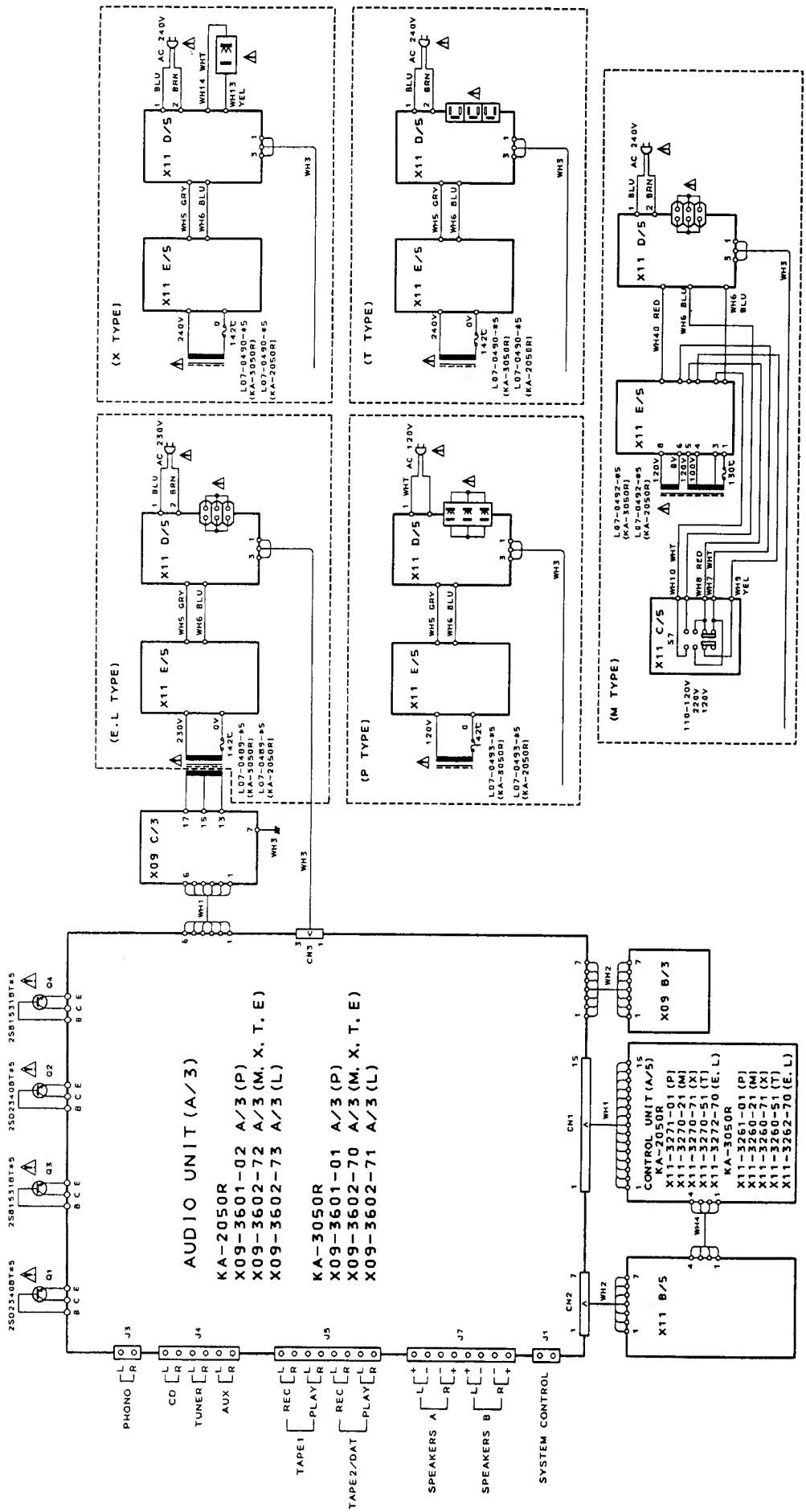
ABGLEICH

NR.	GENGENSTAND	EINGANGS-EINSTELLUNG	AUSANG-EINSTELLUNG	VORSTÄRKER-EINSTELLUNG	ABGLEICHE-PUNKTE	ABGLEICHEN FÜR	ABB.
	Wenn nicht anders angegeben, die einzelnen Schalter wie folgt einstellen: POWER: ON SPEAKER: B REC OUT: OFF SELECTER: PHONO						
1	LEERLAUFSTROM	–	Einen Gleichspannungs-messer über CP1 (L) CP2 (R) anschließen. (X09-)	VOLUME: 0	VR1 (L) VR2 (R) (X09-)	8.8 mV	(a)



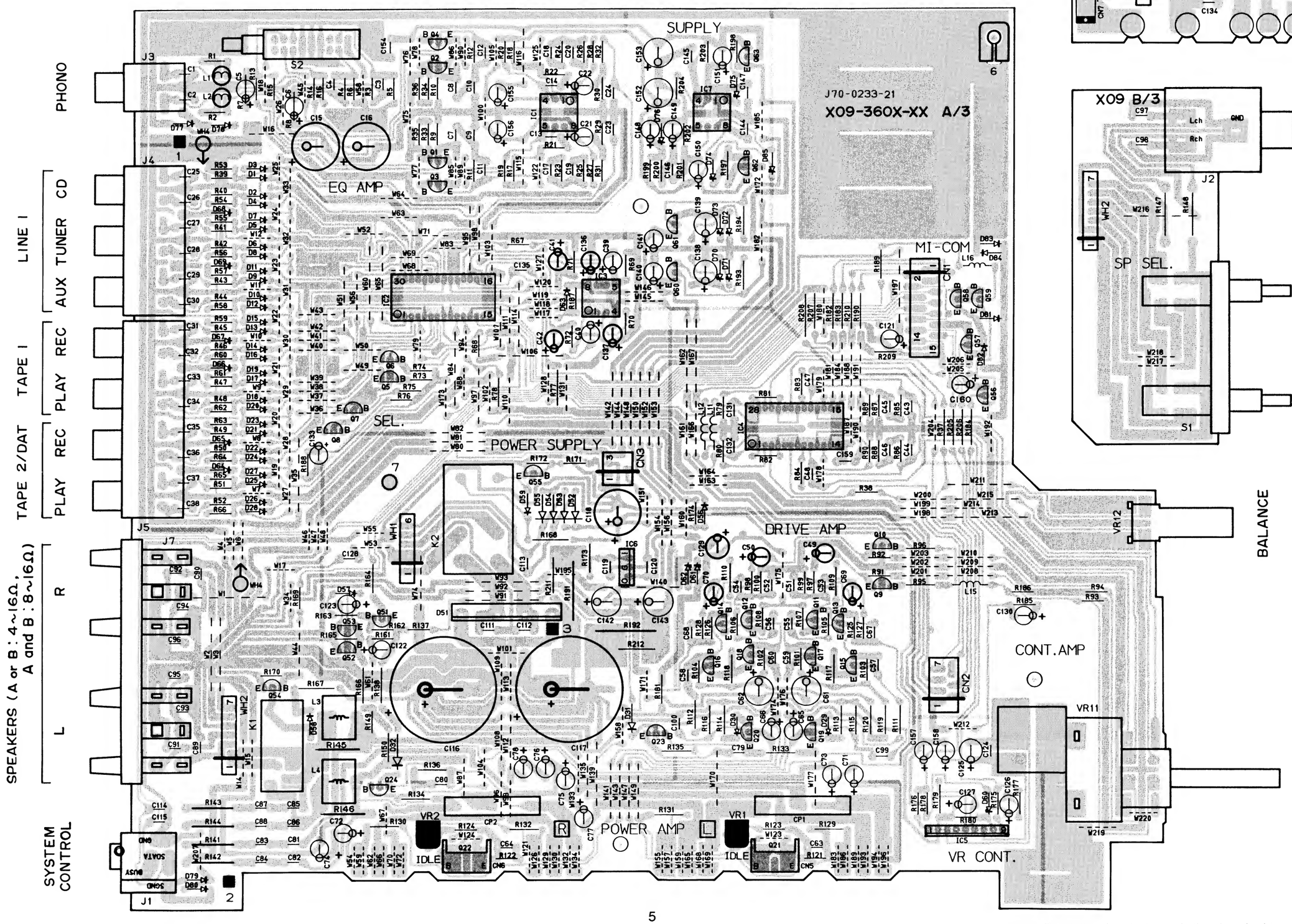
(a)

WIRING DIAGRAM



PC BOARD (Component side view)

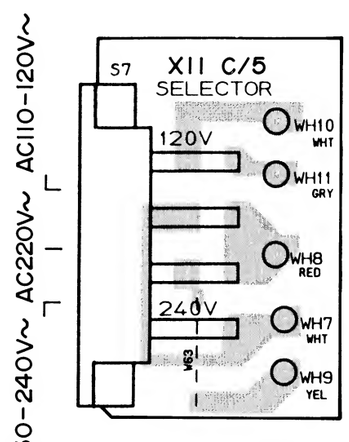
AUDIO UNIT

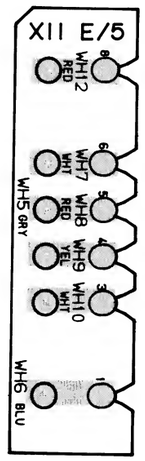


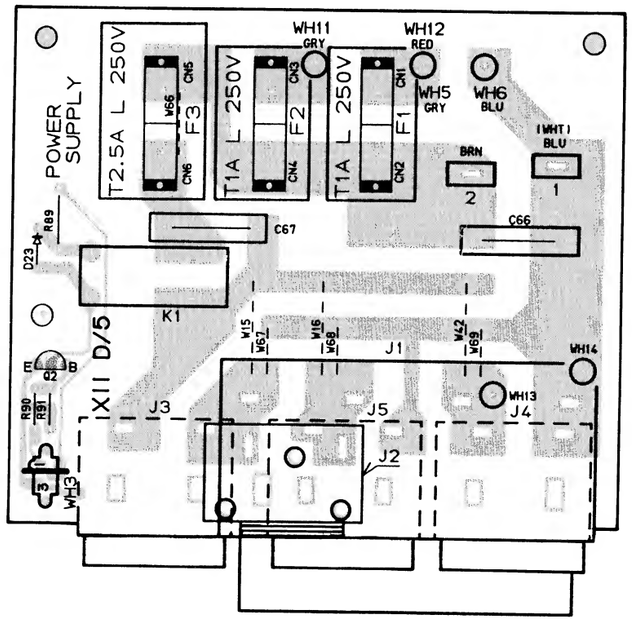
Refer to the schematic diagram for the values of resistors and capacitors

PC BOARD (Component side view)

CONTROL UNIT

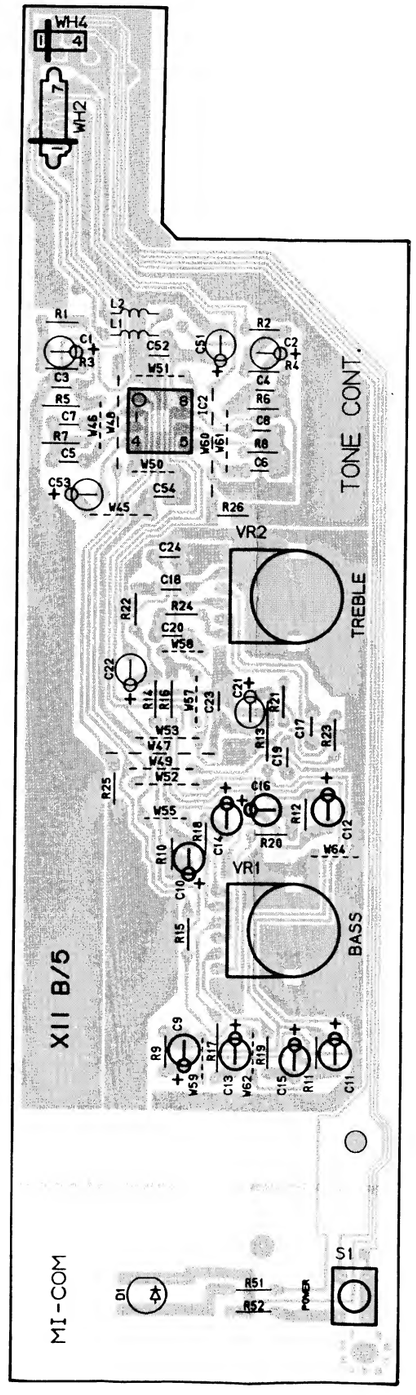


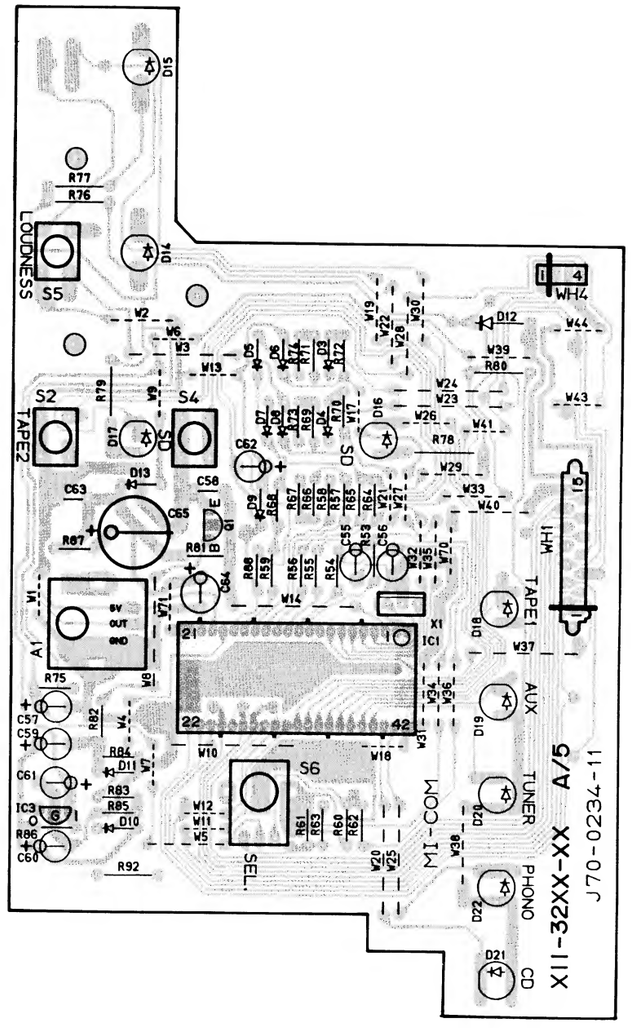




AC110-120/220/230-240V~ 50/60Hz
SWITCHED 200W MAX

AC OUTLETS





Refer to the schematic diagram for the values of resistors and capacitors.

X09-360X-XX A/3

*A A1 KA-3050R

*A KA-2050R A2

PHONO

CD

TUNER

AUX

TAPE 1 REC PLAY

TAPE 2/DAT MONITOR REC PLAY

MC ⟷ MM

VOLUME CONTROL

BALANCE

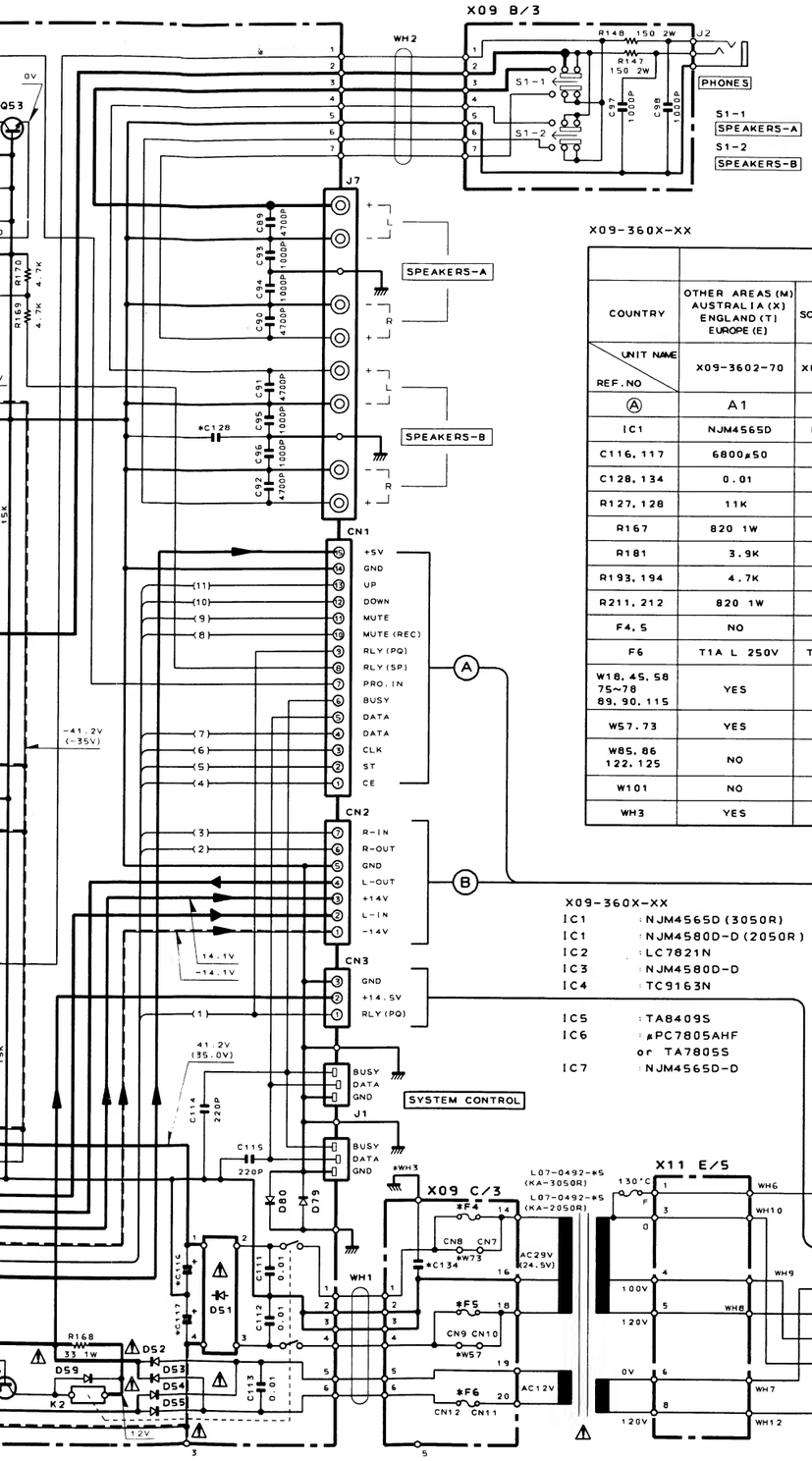
IDLE

KA3050R

KA-2050R

2SD2340

2SB1531

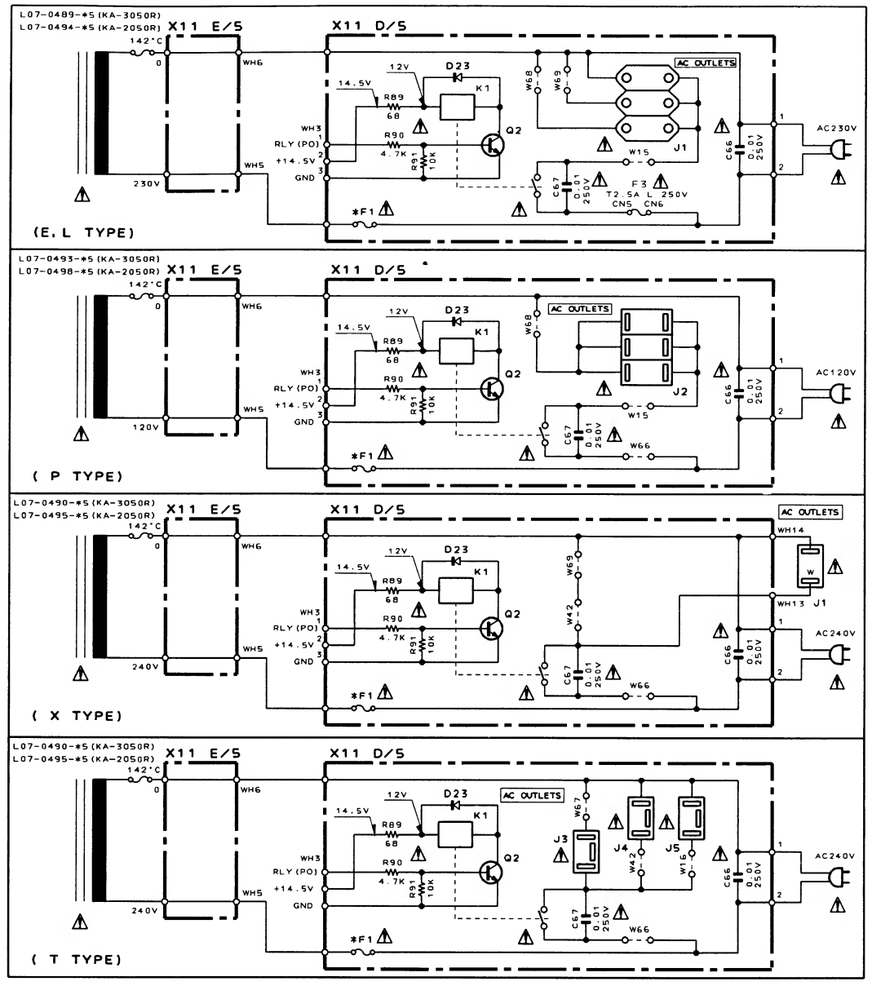


X09-360X-XX

	KA-3050R			KA-2050R		
COUNTRY	OTHER AREAS (M) AUSTRALIA (X) ENGLAND (T) EUROPE (E)	SCANDINAVIA (L)	CANADA (P)	OTHER AREAS (M) AUSTRALIA (X) ENGLAND (T) EUROPE (E)	SCANDINAVIA (L)	CANADA (P)
UNIT NAME / REF. NO	X09-3602-70	X09-3602-71	X09-3601-01	X09-3602-72	X09-3602-73	X09-3601-02
Ⓐ	A1	A1	A1	A2	A2	A2
IC1	NJM4565D	NJM4565D	NJM4565D	NJM4580D-D	NJM4580D-D	NJM4580D-D
C116, 117	6800μ50	6800μ50	6800μ50	5600μ42	5600μ42	5600μ42
C128, 134	0.01	0.01	NO	0.01	0.01	NO
R127, 128	11K	11K	11K	9.1K	9.1K	9.1K
R167	820 1W	820 1W	820 1W	470 1W	470 1W	470 1W
R181	3.9K	3.9K	3.9K	3.3K	3.3K	3.3K
R193, 194	4.7K	4.7K	4.7K	3.9K	3.9K	3.9K
R211, 212	820 1W	820 1W	820 1W	NO	NO	NO
F4, 5	NO	NO	6A 125V	NO	NO	5A 125V
F6	T1A L 250V	T1A L 250V	1A 250V	T1A L 250V	T1A L 250V	1A 250V
W18, 45, 58 75~78 89, 90, 115	YES	YES	YES	NO	NO	NO
W57, 73	YES	YES	NO	YES	YES	NO
W85, 86 122, 125	NO	NO	NO	YES	YES	YES
W101	NO	NO	YES	NO	NO	YES
WH3	YES	YES	NO	YES	YES	NO

X09-360X-XX

IC1	: NJM4565D (3050R)	Q1~4	: 2SK170 (BL, V)	D1~30, 56	: 1SS133
IC1	: NJM4580D-D (2050R)	Q5~10	: 2SC2878 (B)	57, 63~69, 77~84	or HSS104
IC2	: LC7821N	Q11~14 19, 20	: 2SC1845 (F, E)	D31, 32 58, 59	: 1SS131 or HSS104A
IC3	: NJM4580D-D	Q15~18	: 2SA992 (F, E)	D51	: RBV-602LFA or D5SB20F03
IC4	: TC9163N	Q21, 22	: 2SC4137 (V, W)	D52~55	: S5688B
IC5	: TA8409S	Q23, 24 52, 53	: 2SC2458 (Y, GR) or 2SC3311A (Q, R)	D60, 76	: RD5.1JS (B2) or HZS5.1S (B2)
IC6	: μPC7805AHF or TA7805S	Q51	: 2SA1048 (Y, GR) or 2SA1309A (Q, R)	D61, 62 70~74, 85	: RD7.5JS (B) or HZS7.5S (B2)
IC7	: NJM4565D-D	Q54, 55	: 2SC2003 (L, K)	D75	: RD20JS (B) or HZS20S (B)
		Q56, 59	: UN4112 or DTA124ES		
		Q57, 58	: UN4212 or DTC124ES		
		Q60, 62, 63	: 2SD863 (E, F)		
		Q61	: 2SB764 (E, F)		



X11-32XX-XX

Q2	: 2SC2003 (L, K)
D23	: 1SS133 or HSS104

X11-32XX-XX

COUNTRY	ABB	KA-3050R UNIT NAME / AREF. NO	KA-3050R F1	KA-3050R F2	KA-2050R UNIT NAME / AREF. NO	KA-2050R F1	KA-2050R F2
CANADA	P	X11-3261-01	4A 125V	NO	X11-3271-01	2A 250V	NO
OTHER AREAS	M	X11-3260-21	T1.6A L 250V	T1.6A L 250V	X11-3270-21	T1A L 250V	T1A L 250V
AUSTRALIA	X	X11-3260-71	T1.6A L 250V	NO	X11-3270-71	T1A L 250V	NO
ENGLAND	T	X11-3260-51	T1.6A L 250V	NO	X11-3270-51	T1A L 250V	NO
EUROPE, SCANDINAVIA	E, L	X11-3262-70	T1.6A L 250V	NO	X11-3272-70	T1A L 250V	NO

TO X11 WH1 (A) A/5

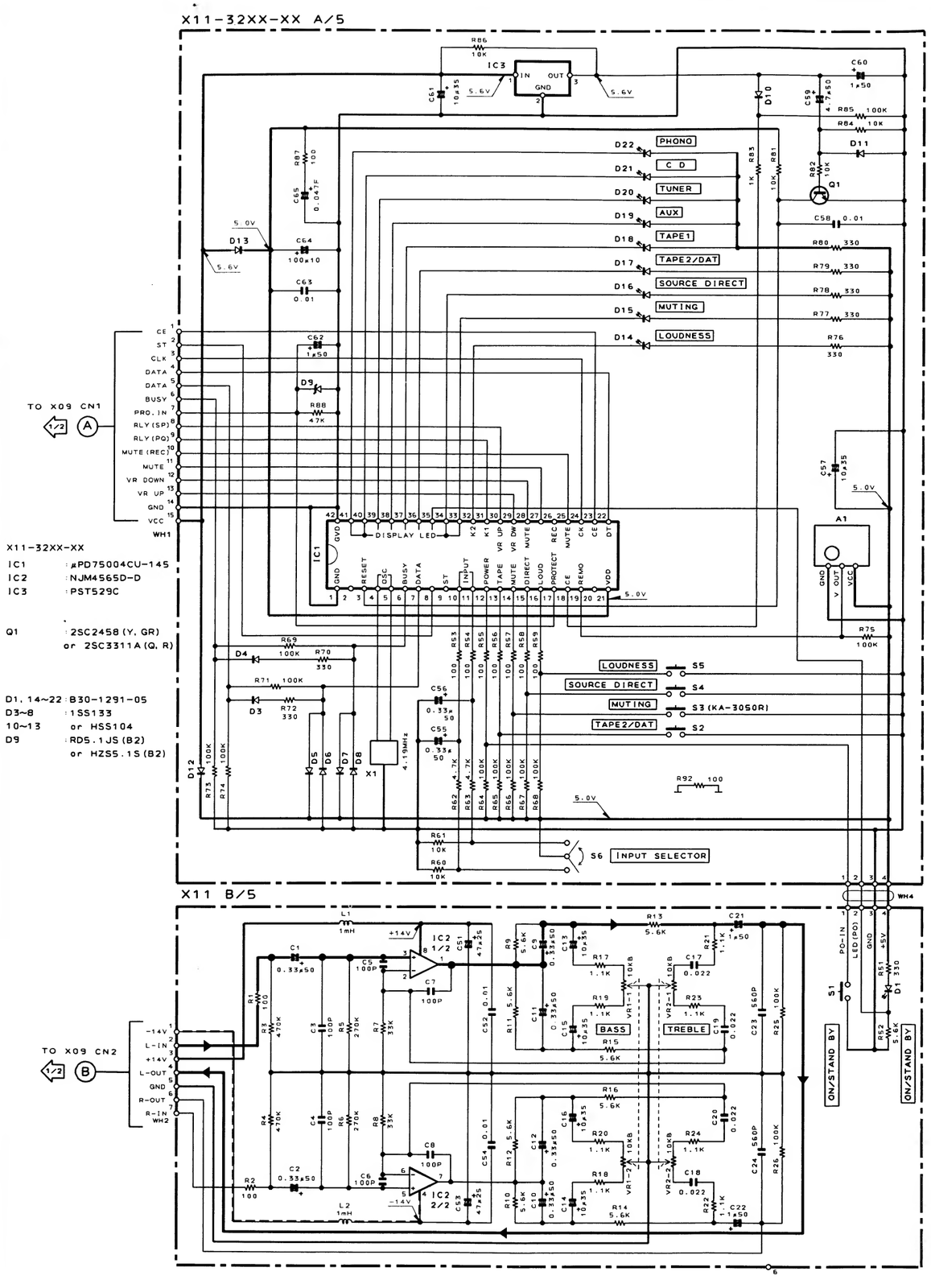
TO X11 WH2 (B) B/5

SIGNAL LINE
GND LINE
+B LINE
-B LINE

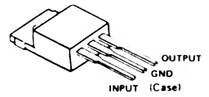
Y08-4582-70

KA-2050R/3050R

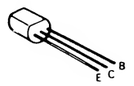
KENWOOD



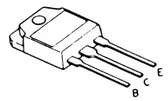
HSS104
HSS104A
HZS5.1S
RD5.1JS
S5688B
1SS131
1SS133



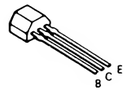
2SA992
2SB764
2SC1845
2SC2003
2SC2878
2SD863



2SB1531BT*5
2SD2340BT*5

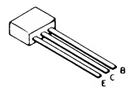


DTA124ES
DTC124ES
UN4112
2SA1048
2SC2458

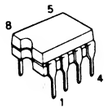


2SC4137

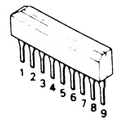
UN4212
2SA1309A
2SC3311A



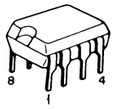
NJM4565D
NJM4565D-D



TA8409S



NJM4580D-D



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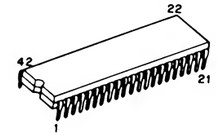
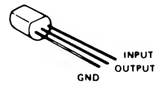
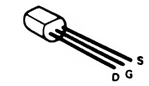


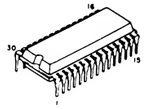
PST529C



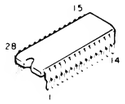
2SK170



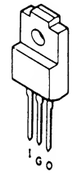
LC7821N



TC9163N



TA7805S



DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufground von Unterschieden zwischen einzelnen Instrumenten order Geräten u. U. geringfügig.

CAUSION: For continued safety, replace safety critical components only with manufacture's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

REMOTE CONTROL OPERATION

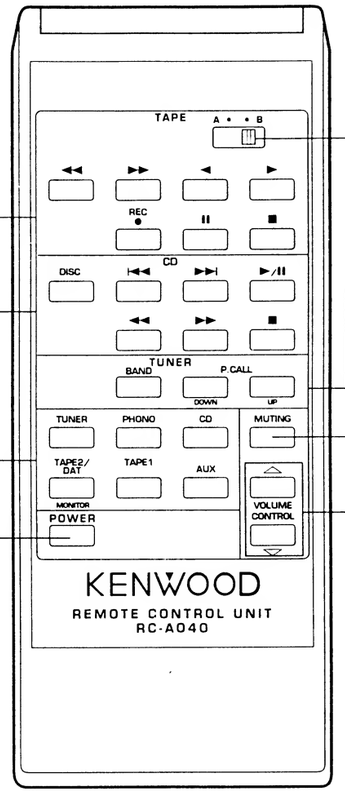
Operation keys for KENWOOD components connected by system control cords

Cassette deck operation keys
These keys perform the same operations as the corresponding keys on the cassette deck. However, operations requring simultaneous pressing of two keys are not possible.

CD player operation keys

Input select keys

POWER key



TAPE A/B selector
A: When operating Deck A of a double cassette deck, set this selector to the A position.
B: When operating Deck B of a double cassette deck or single cassette deck, set this selector to the B position.

TUNER operation keys

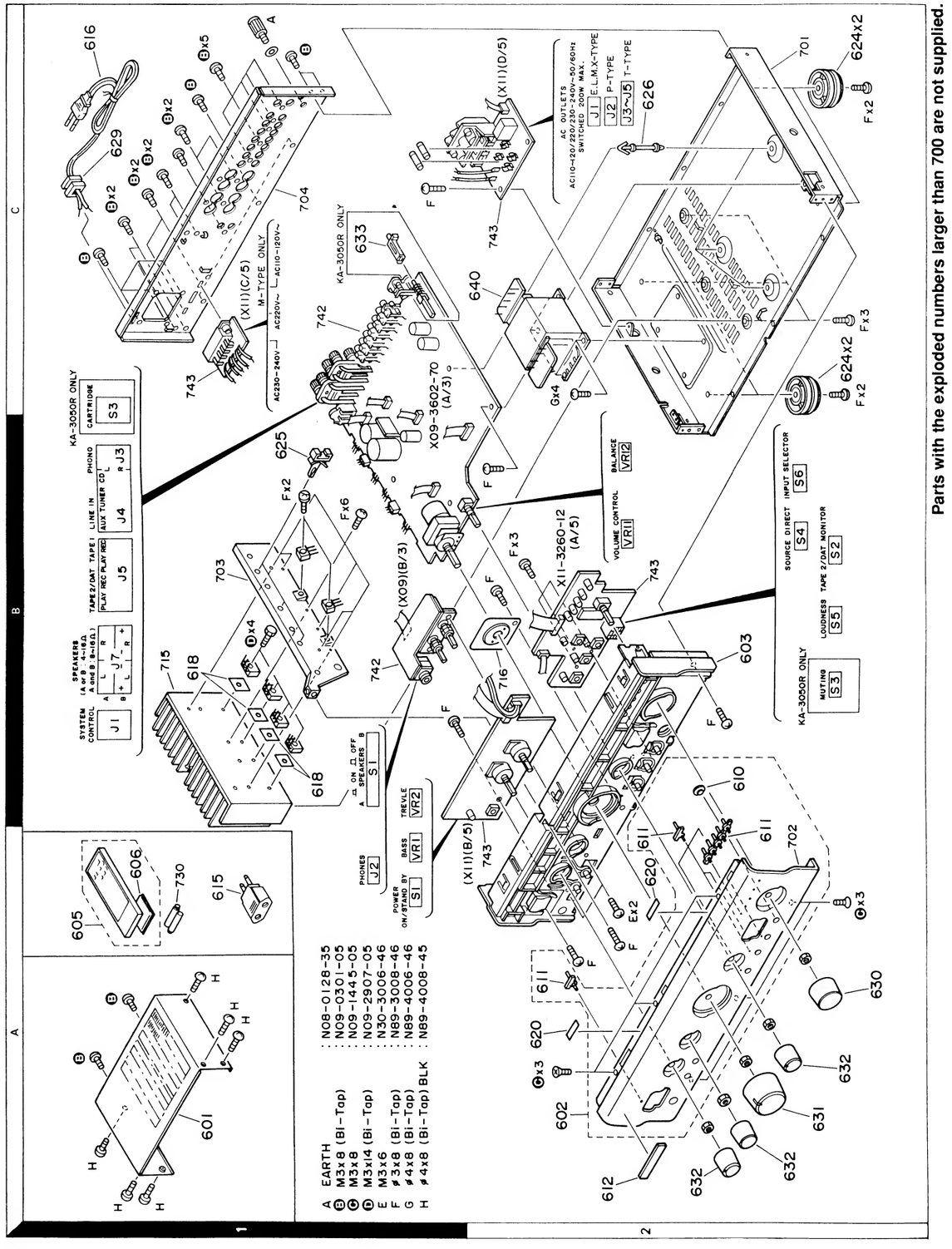
MUTING key

VOLUME CONTROL up ( ) and down ( ) keys

KA-3050R/KA-2050R operation keys
These keys have the same function as the corresponding keys on the main unit.

KA-2050R/3050R

EXPLODED VIEW



Parts with the exploded numbers larger than 700 are not supplied.

* New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile onne **Parts No.** werden nicht geliefert.

No. 1

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
KA-2050R						
601	1A	*	A01-2932-02	METALLIC CABINET		
602	2A	*	A60-0219-02	PANEL ASSY		
603	2B	*	A22-1558-01	SUB PANEL		
605	1A	*	A70-0597-05	REMOTE CONTROLLER ASSY		
606	1A		A09-0094-08	BATTERY COVER		
610	2B		B11-0237-14	COLOR FILTER		
611	2A	*	B12-0196-04	INDICATOR		
612	2A		B43-0287-04	KENWOOD BADGE		
-			B46-0096-33	WARRANTY CARD	X	
-			B46-0121-13	WARRANTY CARD	P	
-			B46-0122-23	WARRANTY CARD	EL	
-			B46-0143-13	WARRANTY CARD	T	
-		*	B60-0835-00	INSTRUCTION MANUAL (ENGLISH)		
-		*	B60-0836-00	INSTRUCTION MANUAL (FRENCH)	ELP	
-		*	B60-0837-00	INSTRUCTION MANUAL (GE,DU,IT)	EL	
-		*	B60-0965-00	INSTRUCTION MANUAL (CHINESE)	M	
-		*	B60-0966-00	INSTRUCTION MANUAL (SPANISH)	ELM	
⚠ 615	1A		E03-0115-05	AC PLUG ADAPTER	M	
⚠ 616	1C		E30-0459-05	AC POWER CORD	ELM	
⚠ 616	1C		E30-0974-05	AC POWER CORD	P	
⚠ 616	1C		E30-1341-05	AC POWER CORD	X	
⚠ 616	1C		E30-1416-05	AC POWER CORD	T	
⚠ J1	2C		E03-0114-05	AC OUTLET	X	
620	2A		G11-0153-04	SOFT TAPE (80X12X3)		
		*	H50-0321-04	ITEM CARTON CASE		
-		*	H10-5296-02	POLYSTYRENE FOAMED FIXTURE		
-		*	H10-5297-02	POLYSTYRENE FOAMED FIXTURE		
-			H25-0225-04	PROTECTION BAG (850X450X0.03)	ELXMP	
-			H25-0232-04	PROTECTION BAG (235X350X0.03)	ELXMP	
-			H25-0651-04	PROTECTION BAG (0232 PRINTED)	T	
-			H25-0654-04	PROTECTION BAG (0225 PRINTED)	T	
624	2C		J02-1034-05	FOOT		
625	1B		J61-0033-05	WIRE BAND		
626	1C		J19-3331-05	UNIT HOLDER		
⚠ 629	1C		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
630	2A		K29-4215-04	KNOB INPUT SELECTOR		
631	2A	*	K29-4382-04	KNOB VOLUME CONTROL		
632	2A	*	K29-4384-04	KNOB BASS,TREBLE,BALANCE		
⚠ 640	2C	*	L07-0494-05	POWER TRANSFORMER	EL	
⚠ 640	2C	*	L07-0495-05	POWER TRANSFORMER	TX	
⚠ 640	2C	*	L07-0497-05	POWER TRANSFORMER	M	
⚠ 640	2C	*	L07-0498-05	POWER TRANSFORMER	P	
A	1C		N08-0128-35	BINDING POST (EARTH)		
B	1A,1C		N09-0301-05	TAPTITE SCREW (3X8)		
C	2A		N09-1445-05	SET SCREW (M3X8)		
D	1B	*	N09-2907-05	SEMS (TAPTITE SCREW)(3X14)		
E	2A		N30-3006-46	PAN HEAD MACHINE SCREW		
F	1A,1B		N89-3008-46	BINDING HEAD TAPTITE SCREW		
G	2C		N89-4006-46	BINDING HEAD TAPTITE SCREW		

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⚠ indicates safety critical components.

AUDIO UNIT

X09-3601-01	KA-3050R P
X09-3601-02	KA-2050R P
X09-3602-70	KA-3050R M, X, T, E
X09-3602-71	KA-3050R L
X09-3602-72	KA-2050R M, X, T, E
X09-3602-73	KA-2050R L

CONTROL UNIT

X11-3260-21	KA-3050R M
X11-3260-51	KA-3050R T
X11-3260-71	KA-3050R X
X11-3261-01	KA-3050R P
X11-3262-70	KA-3050R E, L
X11-3270-21	KA-2050R M
X11-3270-51	KA-2050R T
X11-3270-71	KA-2050R X
X11-3271-01	KA-2050R P
X11-3272-70	KA-2050R E, L

PARTS LIST

KA-2050R/3050R

× New Parts
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Teile ohne Parts No. werden nicht geliefert.

No. 2

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
H	1A		N89-4008-45	BINDING HEAD TAPTITE SCREW		
Q1 ,2		*	2SB1531BT*5	TRANSISTOR		
Q3 ,4		*	2SD2340BT*5	TRANSISTOR		
KA-3050R						
601	1A	*	A01-2932-02	METALLIC CABINET		
602	2A	*	A60-0217-02	PANEL ASSY		
603	2B	*	A22-1558-01	SUB PANEL		
605	1A	*	A70-0597-05	REMOTE CONTROLLER ASSY		
606	1A		A09-0094-08	BATTERY COVER		
610	2B		B11-0237-14	COLOR FILTER		
611	2A	*	B12-0196-04	INDICATOR		
612	2A		B43-0287-04	KENWOOD BADGE		
-			B46-0096-33	WARRANTY CARD	X	
-			B46-0121-13	WARRANTY CARD	P	
-			B46-0122-23	WARRANTY CARD	EL	
-			B46-0143-13	WARRANTY CARD	T	
-		*	B60-0835-00	INSTRUCTION MANUAL (ENGLISH)		
-		*	B60-0836-00	INSTRUCTION MANUAL (FRENCH)	ELP	
-		*	B60-0837-00	INSTRUCTION MANUAL (GE,DU,IT)	EL	
-		*	B60-0965-00	INSTRUCTION MANUAL (CHINESE)	M	
-		*	B60-0966-00	INSTRUCTION MANUAL (SPANISH)	ELM	
⚠ 615	1A		E03-0115-05	AC PLUG ADAPTER	M	
⚠ 616	1C		E30-0459-05	AC POWER CORD	ELM	
⚠ 616	1C		E30-0974-05	AC POWER CORD	P	
⚠ 616	1C		E30-1341-05	AC POWER CORD	X	
⚠ 616	1C		E30-1416-05	AC POWER CORD	T	
J1	2C		E03-0114-05	AC OUTLET	X	
618	1B		F20-1322-05	INSULATING BOARD		
620	2A		G11-0153-04	SOFT TAPE (80X12X3)		
		*	H50-0320-04	ITEM CARTON CASE		
-		*	H10-5296-02	POLYSTYRENE FOAMED FIXTURE		
-		*	H10-5297-02	POLYSTYRENE FOAMED FIXTURE		
-			H25-0225-04	PROTECTION BAG (850X450X0.03)	ELXMP	
-			H25-0232-04	PROTECTION BAG (235X350X0.03)	ELXMP	
-			H25-0651-04	PROTECTION BAG (0232 PRINTED)	T	
-			H25-0654-04	PROTECTION BAG (0225 PRINTED)	T	
624	2C		J02-1034-05	FOOT		
625	1B		J61-0033-05	WIRE BAND		
626	1C		J19-3331-05	UNIT HOLDER		
⚠ 629	1C		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
630	2A		K29-4215-04	KNOB INPIUT SELECTOR		
631	2A	*	K29-4382-04	KNOB VOLUME CONTROL		
632	2A	*	K29-4384-04	KNOB BASS,TREBLE,BALANCE		
633	1C	*	K29-4385-04	KNOB MM/MC		
⚠ 640	2C	*	L07-0489-05	POWER TRANSFORMER	EL	
⚠ 640	2C	*	L07-0490-05	POWER TRANSFORMER	TX	
⚠ 640	2C	*	L07-0492-05	POWER TRANSFORMER	M	
⚠ 640	2C	*	L07-0493-05	POWER TRANSFORMER	P	
A	1C		N08-0128-35	BINDING POST (EARTH)		

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No. 3

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格			Destination 仕向	Remarks 備考
B	1A,1C		N09-0301-05	TAPTITE SCREW (3X8)				
C	2A		N09-1445-05	SET SCREW (M3X8)				
D	1B	*	N09-2907-05	SEMS (TAPTITE SCREW)(3X14)				
E	2A		N30-3006-46	PAN HEAD MACHINE SCREW				
F	1A,1B		N89-3008-46	BINDING HEAD TAPTITE SCREW				
G	2C		N89-4006-46	BINDING HEAD TAPTITE SCREW				
H	1A		N89-4008-45	BINDING HEAD TAPTITE SCREW				
Q1 ,2		*	2SB1531BT*5	TRANSISTOR				
Q3 ,4		*	2SD2340BT*5	TRANSISTOR				
AUDIO UNIT (X09-360X-XX)								
C1 ,2			CF92FV1H101K	MF	100PF	K		
C3 ,4			CF92FV1H471J	MF	470PF	J		3
C5 ,6			CE04KW1V100M	ELECTRO	10UF	35WV		2
C7 -10			CF92FV1H102J	MF	1000PF	J		2
C7 -10			CF92FV1H122J	MF	1200PF	J		3
C11 ,12			CC45FSL1H390J	CERAMIC	39PF	J		3
C13 ,14			CF92FV1H182J	MF	1800PF	J		2
C13 ,14			CF92FV1H332J	MF	3300PF	J		3
C15 ,16			CE04KW1E101M	ELECTRO	100UF	25WV		2
C15 ,16			C90-1951-05	ELECTRO	3300UF	6.3WV		3
C17 ,18			CF92FV1H123J	MF	0.012UF	J		2
C17 ,18			CF92FV1H393J	MF	0.039UF	J		3
C19 ,20			CF92FV1H113J	MF	0.011UF	J		3
C19 ,20			CF92FV1H332J	MF	3300PF	J		2
C21 ,22			CE04KW1H220M	ELECTRO	22UF	50WV		
C23 ,24			CF92FV1H272J	MF	2700PF	J		2
C23 ,24			CF92FV1H392J	MF	3900PF	J		3
C25 -38			CF92FV1H151K	MF	150PF	K		
C39 ,40			CE04KW1V4R7M	ELECTRO	4.7UF	35WV		
C41 ,42		*	C90-1971-05	ELECTRO	10UF	50WV		
C43 ,44			CF92FV1H101K	MF	100PF	K		
C45 ,46			CF92FV1H331K	MF	330PF	K		
C47 ,48			CF92FV1H683J	MF	0.068UF	J		
C49 ,50		*	C90-1971-05	ELECTRO	10UF	50WV		
C51 ,52			CF92FV1H121K	MF	120PF	K		
C53 ,54			CF92FV1H221K	MF	220PF	K		
C59 ,60			CC45FSL2H390J	CERAMIC	39PF	J		
C61 ,62			CE04KW1H101M	ELECTRO	100UF	50WV		
C63 ,64			CF92FV1H103J	MF	0.010UF	J		
C65 ,66			CE04KW1V100M	ELECTRO	10UF	35WV		
C67 ,68			CC45FSL1H050C	CERAMIC	5.0PF	C		
C69 ,70		*	C90-1972-05	ELECTRO	100UF	6.3WV		
C71 -78			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C79 ,80			CK45FB1H222K	CERAMIC	2200PF	K		
C81 -88			CF92FV1H104J	MF	0.10UF	J		
C89 -92			CF92FV1H472J	MF	4700PF	J		
C93 -98			CK45FB1H102K	CERAMIC	1000PF	K		
C99 ,100			CF92FV1H103J	MF	0.010UF	J		
C111-113			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C114,115			CC45FSL1H221J	CERAMIC	220PF	J		
C116,117		*	C90-1963-15	ELECTRO	5600UF	42WV		2
C116,117		*	C90-1968-15	ELECTRO	6800UF	50WV		3
C118			CE04KW1E102M	ELECTRO	1000UF	25WV		
C119			CK45FF1H103Z	CERAMIC	0.010UF	Z		

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No. 4

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
C120			CF92FV1H104J	MF 0.10UF J		
C121			CE04KW1V100M	ELECTR@ 10UF 35WV		
C122			CE04KW1H010M	ELECTR@ 1.0UF 50WV		
C123			CE04KW1A470M	ELECTR@ 47UF 10WV		
C124			CK45FF1H223Z	CERAMIC 0.022UF Z		
C125-127			CE04KW1V100M	ELECTR@ 10UF 35WV		
C128			CK45FF1H103Z	CERAMIC 0.010UF Z	ELTXM	
C129			C90-1917-05	ELECTR@ 100UF 16WV		
C130			CE04KW1H010M	ELECTR@ 1.0UF 50WV		
C131,132			CF92FV1H103J	MF 0.010UF J		
C133			CE04KW1H010M	ELECTR@ 1.0UF 50WV		
C134			CK45FF1H103Z	CERAMIC 0.010UF Z	ELTXM	
C135			CF92FV1H103J	MF 0.010UF J		
C136,137		＊	C90-1971-05	ELECTR@ 10UF 50WV		
C138,139			CE04KW1E101M	ELECTR@ 100UF 25WV		
C140,141			CE04KW1C470M	ELECTR@ 47UF 16WV		
C142,143			CE04KW1H101M	ELECTR@ 100UF 50WV		
C144,145			CF92FV1H103J	MF 0.010UF J		
C146,147			CC45FSL1H101J	CERAMIC 100PF J		
C148,149			CE04KW1A101M	ELECTR@ 100UF 10WV		
C150,151			CE04KW1V100M	ELECTR@ 10UF 35WV		
C152,153			CE04KW1E221M	ELECTR@ 220UF 25WV		
C154			CK45FF1H103Z	CERAMIC 0.010UF Z	ELTXM	3
C155,156			CE04KW1V100M	ELECTR@ 10UF 35WV		
C157,158			CE04KW1H010M	ELECTR@ 1.0UF 50WV		
C159			CC45FSL1H221J	CERAMIC 220PF J		
C160			CE04KW1H010M	ELECTR@ 1.0UF 50WV		
J1			E11-0188-05	MINIATURE PH@NE JACK SYNCR@		
J2			E11-0208-05	PH@NE JACK PH@NES		
J3			E13-0235-05	PH@N@ JACK PH@N@		
J4			E13-0634-05	PH@N@ JACK CD/TUNER/AUX		
J5			E13-0820-05	PH@N@ JACK TAPE/DAT M@NIT@R		
J7		＊	E70-0018-05	SCREW TERMINAL B@ARD SPEAKRES	ETXMP	
J7		＊	E70-0019-05	SCREW TERMINAL B@ARD SPEAKERS	L	
⚠ F4 ,5			F04-5022-05	FUSE (UL) (125V 5A UL)	P 2	
⚠ F4 ,5			F05-6029-05	FUSE (UL) (125V 6A)	P 3	
⚠ F6			F04-1026-05	FUSE (UL) (250V 1A)	P	
⚠ F6			F06-1022-05	FUSE (SEMK@) (250V T1A)	ELTXM	
-			J11-0098-05	WIRE CLAMPER		
CN7 -12			J13-0075-05	FUSE CLIP	P	
CN11,12			J13-0075-05	FUSE CLIP	ELTXM	
L1 ,2			L40-1011-47	SMALL FIXED INDUCT@R(100UH,K)		3
L3 ,4			L39-0085-05	PHASE C@MPENSATI@N C@IL		
L11 ,12			L40-1011-17	SMALL FIXED INDUCT@R(100UH,K)		
L15 ,16			L40-2211-17	SMALL FIXED INDUCT@R(220UH,K)		
CP1 ,2			R90-0187-05	MULTI-C@MP 0.22X2 K 5W		
R23 ,24			RN14BK2C2613FTS	RN 261K F 1/6W		2
R23 ,24			RN14BK2C8252FTS	RN 82.5K F 1/6W		3
R25 ,26			RN14BK2C6811FTS	RN 6.81K F 1/6W		3
R111,112			RD14AB2E472JTS	FL-PR@@F RD 4.7K J 1/4W		
R113-118			RD14AB2E680JTS	FL-PR@@F RD 68 J 1/4W		
R119,120			RD14AB2E100JTS	FL-PR@@F RD 10 J 1/4W		
R129-132			RD14AB2E101JTS	FL-PR@@F RD 100 J 1/4W		

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No. 5

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
R133,134			RD14AB2E332JTS	FL-PR@@F RD 3.3K J 1/4W		
R135,136			RD14AB2E102JTS	FL-PR@@F RD 1.0K J 1/4W		
R141-144			RS14GB3A100JKW	FL-PR@@F RS 10 J 1W		
R145,146		＊	RS14GB3A8R2JKW	FL-PR@@F RS 8.2 J 1W		
R147,148			RS14DB3D151JTE	FL-PR@@F RS 150 J 2W		
R167			RS14DB3A471JTE	FL-PR@@F RS 470 J 1W		2
R167			RS14DB3A821JTE	FL-PR@@F RS 820 J 1W		3
R168			RS14DB3A330JTE	FL-PR@@F RS 33 J 1W		
R173			RD14AB2E680JTS	FL-PR@@F RD 68 J 1/4W		
R179			RD14AB2E470JTS	FL-PR@@F RD 47 J 1/4W		
R181			RD14AB2E332JTS	FL-PR@@F RD 3.3K J 1/4W		2
R181			RD14AB2E392JTS	FL-PR@@F RD 3.9K J 1/4W		3
R191,192		＊	RS14GB3D331JKW	FL-PR@@F RS 330 J 2W		
R193,194			RD14AB2E392JTS	FL-PR@@F RD 3.9K J 1/4W		2
R193,194			RD14AB2E472JTS	FL-PR@@F RD 4.7K J 1/4W		3
R197			RD14AB2E472JTS	FL-PR@@F RD 4.7K J 1/4W		
R211,212			RS14DB3A821JTE	FL-PR@@F RS 820 J 1W		3
VR1 ,2			R12-1616-05	TRIMMING P@T.(1K) IDLEING		
VR11		＊	R29-5068-05	P@TENTI@METER(100K) V@LUME		
VR12			R05-5037-05	P@TENTI@METER(200K) BALANCE		
K1			S76-0005-05	MAGNETIC RELAY		
K2			S76-0015-05	MAGNETIC RELAY		
S1		＊	S68-0010-05	PUSH SWITCH SPEAKERS A/B		
S2			S40-6035-05	PUSH SWITCH MM/MC		3
D1 -30			HSS104	DI@DE		
D1 -30			1SS133	DI@DE		
D31 ,32			HSS104A	DI@DE		
D31 ,32			1SS131	DI@DE		
D51			D5SBA20F03	DI@DE		
D51			RBV-602LFA	DI@DE		
D52 -55			S5688B	DI@DE		
D56 ,57			HSS104	DI@DE		
D56 ,57			1SS133	DI@DE		
D58 ,59			HSS104A	DI@DE		
D58 ,59			1SS131	DI@DE		
D60			HZS5.1S(B2)	ZENER DI@DE		
D60			RD5.1JS(B2)	ZENER DI@DE		
D61 ,62			HZS7.5S(B)	ZENER DI@DE		
D61 ,62			RD7.5JS(B)	ZENER DI@DE		
D63 -69			HSS104	DI@DE		
D63 -69			1SS133	DI@DE		
D70 -74			HZS7.5S(B)	ZENER DI@DE		
D70 -74			RD7.5JS(B)	ZENER DI@DE		
D75			HZS20S(B)	ZENER DI@DE		
D75			RD20JS(B)	ZENER DI@DE		
D76			HZS5.1S(B2)	ZENER DI@DE		
D76			RD5.1JS(B2)	ZENER DI@DE		
D77 -84			HSS104	DI@DE		
D77 -84			1SS133	DI@DE		
D85			HZS7.5S(B)	ZENER DI@DE		
D85			RD7.5JS(B)	ZENER DI@DE		
IC1			NJM4565D	IC(@P AMP X2)		3
IC1			NJM4580D-D	IC(@P AMP X2)		2
IC2			LC7821N	IC(FUNCTI@N C@NTR@L SWITCH)		

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No. 6

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
IC3			NJM4580D-D	IC(OP AMP X2)		
IC4			TC9163N	IC(BILATERAL SWITCH X16)		
IC5			TA8409S	IC(MOTOR CONTROL)		
IC6			TA7805S	IC(VOLTAGE REGULATOR/ +5V)		
IC6			UPC7805AHF	IC(VOLTAGE REGULATOR/ +5V)		
IC7			NJM4565D-D	IC(OP AMP X2)		
Q1 -4			2SK170(BL)	FET		3
Q1 -4			2SK170(V)	FET		3
Q5 -10			2SC2878(B)	TRANSISTOR		
Q11 -14			2SC1845(F,E)	TRANSISTOR		
Q15 -18			2SA992(F,E)	TRANSISTOR		
Q19 ,20			2SC1845(F,E)	TRANSISTOR		
Q21 ,22			2SC4137(V,W)	TRANSISTOR		
Q23 ,24			2SC2458(Y,GR)	TRANSISTOR		
Q23 ,24			2SC3311A(Q,R)	TRANSISTOR		
Q51			2SA1048(Y,GR)	TRANSISTOR		
Q51			2SA1309A(Q,R)	TRANSISTOR		
Q52 ,53			2SC2458(Y,GR)	TRANSISTOR		
Q52 ,53			2SC3311A(Q,R)	TRANSISTOR		
Q54 ,55			2SC2003(L,K)	TRANSISTOR		
Q56			DTA124ES	DIGITAL TRANSISTOR		
Q56			UN4112	DIGITAL TRANSISTOR		
Q57 ,58			DTC124ES	DIGITAL TRANSISTOR		
Q57 ,58			UN4212	DIGITAL TRANSISTOR		
Q59			DTA124ES	DIGITAL TRANSISTOR		
Q59			UN4112	DIGITAL TRANSISTOR		
Q60			2SD863(E,F)	TRANSISTOR		
Q61			2SB764(E,F)	TRANSISTOR		
Q62 ,63			2SD863(E,F)	TRANSISTOR		
CONTROL UNIT (X11-32XX-XX)						
D1			B30-1291-05	LED(LN21CPSLX(V)-(TA4))		
D14 -22			B30-1291-05	LED(LN21CPSLX(V)-(TA4))		
C1 ,2			CE04KW1HR33M	ELECTRO 0.33UF 50WV		
C3 -8			CF92FV1H101K	MF 100PF K		
C9 -12		*	C90-1969-05	ELECTRO 0.33UF 50WV		
C13 -16		*	C90-1970-05	ELECTRO 10UF 35WV		
C17 -20			CF92FV1H223J	MF 0.022UF J		
C21 ,22			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C23 ,24			CF92FV1H561J	MF 560PF J		
C51			CE04KW1E470M	ELECTRO 47UF 25WV		
C52			CF92FV1H103J	MF 0.010UF J		
C53			CE04KW1E470M	ELECTRO 47UF 25WV		
C54			CF92FV1H103J	MF 0.010UF J		
C55 ,56			CE04KW1HR33M	ELECTRO 0.33UF 50WV		
C57			C90-3244-05	ELECTRO 10UF 35WV		
C58			CK45FF1H103Z	CERAMIC 0.010UF Z		
C59			C90-3256-05	ELECTRO 4.7UF 50WV		
C60			C90-3253-05	ELECTRO 1UF 50WV		
C61			C90-3244-05	ELECTRO 10UF 35WV		
C62			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C63			CK45FF1H103Z	CERAMIC 0.010UF Z		
C64			CE04KW1A101M	ELECTRO 100UF 10WV		
C65			C90-1827-05	BACKUP 0.047F 5.5WV		
⚠ C66 ,67			C91-1439-05	FILM 0.01UF 250VAC		

L:Scandinavia K:USA P:Canada
Y:PX(Far East, Hawaii) T:England E:Europe
Y:AAFES(Europe) X:Australia M:Other Areas

3 : KA-3050R
2 : KA-2050R

⚠ indicates safety critical components.

* New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

No. 7

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
⚠ J1		*	E03-0131-05	AC OUTLET	ELM	
⚠ J2			E03-0111-05	AC OUTLET	P	
⚠ J3 -5			E03-0109-05	AC OUTLET	T	
⚠ F1			F04-2025-05	FUSE (UL) (250V 2A)	P	2
⚠ F1			F05-1623-05	FUSE (SEMKO) (250V T1.6A)	ELTX	3
⚠ F1			F05-4028-05	FUSE (UL) (125V 4A)	P	3
⚠ F1			F06-1022-05	FUSE (SEMKO) (250V T1A)	ELTX	2
⚠ F1 ,2			F05-1623-05	FUSE (SEMKO) (250V T1.6A)	M	3
⚠ F1 ,2			F06-1022-05	FUSE (SEMKO) (250V T1A)	M	2
⚠ F3			F05-2525-05	FUSE (SEMKO) (250V T2.5A)	EL	
CN1 -4			J13-0075-05	FUSE CLIP	M	
CN1 ,2			J13-0075-05	FUSE CLIP	ELTXP	
CN5 ,6			J13-0075-05	FUSE CLIP	EL	
L1 ,2			L40-1021-14	SMALL FIXED INDUCTOR(1.0MH,K)		
X1			L78-0209-05	RESONATOR 4.194MHZ		
R89			RD14AB2E680JTS	FL-PROOF RD 68 J 1/4W		
VR1 ,2			R06-3061-05	POTENTIOMETER BASS,TRESLE		
K1			S76-0009-05	MAGNETIC RELAY		
S1 -5			S40-1064-05	PUSH SWITCH KEY BOARD		3
S1 ,2			S40-1064-05	PUSH SWITCH POWER,TAPE2/DAT		2
S4 ,5			S40-1064-05	PUSH SWITCH SOURCE DIR,LOUDNES		2
⚠ S7			S31-2322-05	SLIDE SWITCH VOLTAGE SELECTOR	M	
S6		*	T99-0526-05	ROTARY ENCODER INPUT SELECTOR		
D3 -8			HSS104	DIODE		
D3 -8			1SS133	DIODE		
D9			HZS5.1S(B2)	ZENER DIODE		
D9			RD5.1JS(B2)	ZENER DIODE		
D10 -13			HSS104	DIODE		
D10 -13			1SS133	DIODE		
D23			HSS104	DIODE		
D23			1SS133	DIODE		
IC1		*	UPD75004CU-145	IC(MICROPROCESSOR)		
IC2			NJM4565D-D	IC(OP AMP X2)		
IC3			PST529C	IC(SYSTEM RESET)		
Q1			2SC2458(Y,GR)	TRANSISTOR		
Q1			2SC3311A(Q,R)	TRANSISTOR		
Q2			2SC2003(L,K)	TRANSISTOR		
A1			W02-1046-05	ELECTRIC CIRCUIT MODULE		

L:Scandinavia K:USA P:Canada
Y:PX(Far East, Hawaii) T:England E:Europe
Y:AAFES(Europe) X:Australia M:Other Areas

3 : KA-3050R
2 : KA-2050R

⚠ indicates safety critical components.

SPECIFICATIONS (For U.K. and Europe)

KA-3050R

Continuous rated power output
(DIN) 1 kHz, at 8 Ω ..... 55 W + 55 W
at 4 Ω ..... 70 W + 70 W
(IEC/NF) From 63 Hz to 12,500 Hz, 0.7% T.H.D.
at 8 Ω ..... 55 W + 55 W
at 4 Ω ..... 70 W + 70 W
Dynamic power ..... 65 W (8 Ω)
70 W (6 Ω)
85 W (4 Ω)
100 W (2 Ω)
Damping factor ..... 40 (50 Hz)
Total harmonic distortion 0.05%
(20 Hz ~ 20,000 Hz, 45 W, 8 Ω)
0.02% (1 kHz, 45 W, 8 Ω)
Intermodulation distortion ..... 0.05% (45 W, 8 Ω)
(70 Hz : 7 kHz = 4:1)
Frequency response
CD ..... 5 Hz ~ 90 kHz, +0 dB, –3 dB
PHONO 'RIAA' response ..... 20 Hz ~ 20 kHz,
+0.3 dB, –0.3 dB
Maximum input level
PHONO (MM) ..... 130 mV, 0.5% T.H.D. at 1 kHz
PHONO (MC) ..... 10 mV, 0.5% T.H.D. at 1 kHz
Signal to noise ratio
PHONO (MM) ..... 87 dB (IHF '66)
82 dB (IHF '78)
PHONO (MC) ..... 67 dB (IHF '66)
75 dB (IHF '78)
CD/TUNER/AUX/TAPE ..... 101 dB (IHF '66)
85 dB (IHF '78)
PHONO (MM) ..... 60 dB (DIN, 50 mW output)
CD/TUNER/AUX/TAPE ..... 60 dB (DIN, 50 mW output)
Input sensitivity/impedance
PHONO (MM) ..... 2.5 mV/47 kΩ
PHONO (MC) ..... 0.2 mV/100 Ω
CD/TUNER/AUX/TAPE ..... 200 mV/47 kΩ
Tone control
BASS ..... ±10 dB (at 100 Hz)
TREBLE ..... ±10 dB (at 10 kHz)
Loudness control
VOLUME at –30 dB level ..... +6 dB (100 Hz),
+3 dB (10 kHz)
Output level/impedance
TAPE REC ..... 200 mV/1 kΩ

General

Power consumption ..... 160 W
AC outlets
SWITCHED ..... 3; (Total 200 W max.)
Dimensions ..... W: 440 mm (17-5/16")
H: 136 mm (5-3/8")
D: 350 mm (13-3/4")
Weight (net) ..... 6.9 kg (15.2 lb)

KA-2050R

Continuous rated power output
(DIN) 1 kHz, at 8 Ω ..... 35 W + 35 W
at 4 Ω ..... 45 W + 45 W
(IEC/NF) From 63 Hz to 12,500 Hz, 0.7% T.H.D.
at 8 Ω ..... 35 W + 35 W
at 4 Ω ..... 40 W + 40 W
Dynamic power ..... 45 W (8 Ω)
50 W (6 Ω)
60 W (4 Ω)
70 W (2 Ω)
Damping factor ..... 40 (50 Hz)
Total harmonic distortion 0.05%
(20 Hz ~ 20,000 Hz, 30 W, 8 Ω)
0.02% (1 kHz, 30 W, 8 Ω)
Intermodulation distortion ..... 0.05% (30 W, 8 Ω)
(70 Hz : 7 kHz = 4:1)
Frequency response
CD ..... 5 Hz ~ 90 kHz, +0 dB, –3 dB
PHONO 'RIAA' response ..... 20 Hz ~ 20 kHz,
+0.3 dB, –0.3 dB
Maximum input level
PHONO (MM) ..... 130 mV, 0.5% T.H.D. at 1 kHz
Signal to noise ratio
PHONO (MM) ..... 77 dB (IHF '66)
80 dB (IHF '78)
CD/TUNER/AUX/TAPE ..... 101 dB (IHF '66)
85 dB (IHF '78)
PHONO (MM) ..... 58 dB (DIN, 50 mW output)
CD/TUNER/AUX/TAPE ..... 60 dB (DIN, 50 mW output)
Input sensitivity/impedance
PHONO (MM) ..... 2.5 mV/47 kΩ
CD/TUNER/AUX/TAPE ..... 200 mV/47 kΩ
Tone control
BASS ..... ±10 dB (at 100 Hz)
TREBLE ..... ±10 dB (at 10 kHz)
Loudness control
VOLUME at –30 dB level ..... +6 dB (100 Hz),
+3 dB (10 kHz)
Output level/impedance
TAPE REC ..... 200 mV/1 kΩ

General

Power consumption ..... 120 W
AC outlets
SWITCHED ..... 3; (Total 200 W max.)
Dimensions ..... W: 440 mm (17-5/16")
H: 136 mm (5-3/8")
D: 350 mm (13-3/4")
Weight (net) ..... 6.0 kg (13.2 lb)

KA-2050R/3050R

SPECIFICATIONS (For other countries)

KA-3050R

Continuous rated power output
(IHF '66) From 20 Hz to 20,000 Hz 0.05% T.H.D.
at 8 Ω ..... 45 W + 45 W
(IEC/NF) From 63 Hz to 12,500 Hz, 0.7% T.H.D.
at 8 Ω ..... 55 W + 55 W
at 4 Ω ..... 70 W + 70 W
Dynamic power ..... 65 W (8 Ω)
70 W (6 Ω)
85 W (4 Ω)
100 W (2 Ω)
Damping factor ..... 40 (50 Hz)
Total harmonic distortion 0.05%
(20 Hz ~ 20,000 Hz, 45 W, 8 Ω)
0.02% (1 kHz, 45 W, 8 Ω)
Intermodulation distortion ..... 0.05% (45 W, 8 Ω)
(70 Hz : 7 kHz = 4:1)
Frequency response
CD ..... 5 Hz ~ 90 kHz, +0 dB, –3 dB
PHONO 'RIAA' response ..... 20 Hz ~ 20 kHz,
+0.3 dB, –0.3 dB
Maximum input level
PHONO (MM) ..... 130 mV, 0.5% T.H.D. at 1 kHz
PHONO (MC) ..... 10 mV, 0.5% T.H.D. at 1 kHz
Signal to noise ratio
PHONO (MM) ..... 87 dB (IHF '66)
82 dB (IHF '78)
PHONO (MC) ..... 67 dB (IHF '66)
75 dB (IHF '78)
CD/TUNER/AUX/TAPE ..... 101 dB (IHF '66)
85 dB (IHF '78)
Input sensitivity/impedance
PHONO (MM) ..... 2.5 mV/47 kΩ
PHONO (MC) ..... 0.2 mV/100 Ω
CD/TUNER/AUX/TAPE ..... 200 mV/47 kΩ
Tone control
BASS ..... ±10 dB (at 100 Hz)
TREBLE ..... ±10 dB (at 10 kHz)
Loudness control
VOLUME at –30 dB level ..... +6 dB (100 Hz),
+3 dB (10 kHz)
Output level/impedance
TAPE REC ..... 200 mV/1 kΩ

General

Power consumption ..... 160 W
AC outlets
SWITCHED ..... 3; (Total 200 W max.)
For Australia 2; (Total 200 W max.)
Dimensions ..... W: 440 mm (17-5/16")
H: 136 mm (5-3/8")
D: 350 mm (13-3/4")
Weight (net) ..... 6.9 kg (15.2 lb)

KA-2050R

Continuous rated power output
(IHF '66) From 20 Hz to 20,000 Hz 0.05% T.H.D.
at 8 Ω ..... 30 W + 30 W
(IEC/NF) From 63 Hz to 12,500 Hz, 0.7% T.H.D.
at 8 Ω ..... 35 W + 35 W
at 4 Ω ..... 40 W + 40 W
Dynamic power ..... 45 W (8 Ω)
50 W (6 Ω)
60 W (4 Ω)
70 W (2 Ω)
Damping factor ..... 40 (50 Hz)
Total harmonic distortion 0.05%
(20 Hz ~ 20,000 Hz, 30 W, 8 Ω)
0.02% (1 kHz, 30 W, 8 Ω)
Intermodulation distortion ..... 0.05% (30 W, 8 Ω)
(70 Hz : 7 kHz = 4:1)
Frequency response
CD ..... 5 Hz ~ 90 kHz, +0 dB, –3 dB
PHONO 'RIAA' response ..... 20 Hz ~ 20 kHz,
+0.3 dB, –0.3 dB
Maximum input level
PHONO (MM) ..... 130 mV, 0.5% T.H.D. at 1 kHz
Signal to noise ratio
PHONO (MM) ..... 77 dB (IHF '66)
80 dB (IHF '78)
CD/TUNER/AUX/TAPE ..... 101 dB (IHF '66)
85 dB (IHF '78)
Input sensitivity/impedance
PHONO (MM) ..... 2.5 mV/47 kΩ
CD/TUNER/AUX/TAPE ..... 200 mV/47 kΩ
Tone control
BASS ..... ±10 dB (at 100 Hz)
TREBLE ..... ±10 dB (at 10 kHz)
Loudness control
VOLUME at –30 dB level ..... +6 dB (100 Hz),
+3 dB (10 kHz)
Output level/impedance
TAPE REC ..... 200 mV/1 kΩ

General

Power consumption ..... 120 W
AC outlets
SWITCHED ..... 3; (Total 200 W max.)
For Australia 2; (Total 200 W max.)
Dimensions ..... W: 440 mm (17-5/16")
H: 136 mm (5-3/8")
D: 350 mm (13-3/4")
Weight (net) ..... 6.0 kg (13.2 lb)

Kenwood follows a policy of continuous advancements in development.
For this reason specifications may be changed without notice.

Kenwood poursuit une politique de progrès constants en ce qui concerne le développement.
Pour cette raison, les spécifications sont sujettes à modifications sans préavis.

Kenwood strebt ständige Verbesserungen in der Entwicklung an.
Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.

Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the general market (M) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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